

# State of 911 Webinar

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NATIONAL 911 PROGRAM

DECEMBER 4, 2014



# State of 911 Webinar Series

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Designed to provide useful information about Federal and State participation in the planning, design, and implementation of Next Generation 911 (NG911) coupled with real experiences from leaders overseeing these transitions throughout the country

Webinars are held every other month and typically include presentations from a Federal-level 911 stakeholder and State-level 911 stakeholder, each followed by a 10-minute Q&A period

For more information on future webinars, access to archived recordings and to learn more about the National 911 Program, please visit [911.gov](https://911.gov)

Feedback or questions can be sent to: [National911Team@mcp911.com](mailto:National911Team@mcp911.com)

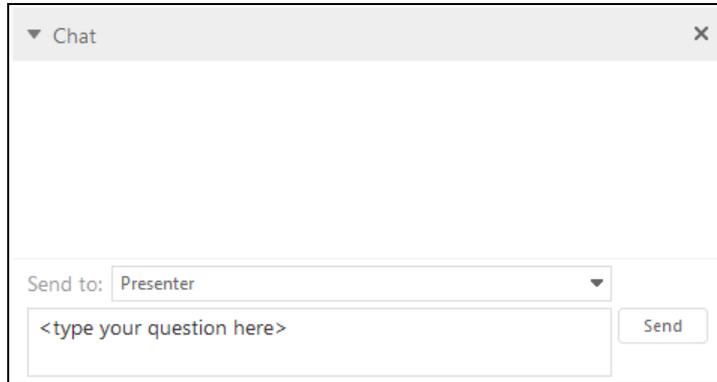


# Questions?

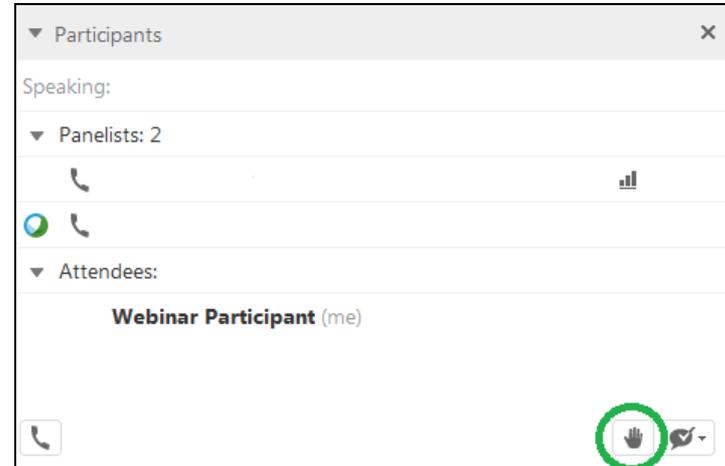
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**FirstNet**<sup>TM</sup>

[www.firstnet.gov](http://www.firstnet.gov)



# FirstNet Update

**Amanda Hilliard, Director of Outreach**

**December 4, 2014**

# First Responders Deserve the Best Network



- FirstNet will ensure the development of a reliable and resilient broadband network that will provide nationwide coverage, even in the most remote regions



- The network must meet public safety's requirements and ensure priority and preemption during emergencies
- The network will provide access to applications and broadband services

## The Long-Term Vision



Mobile Data Terminal -  
**FirstNet** LTE Air Card



Mission Critical Data

Smart Devices  
**FirstNet** LTE Service



Mission Critical Voice  
Mission Critical Data

Specialty Devices  
**FirstNet** LTE Service



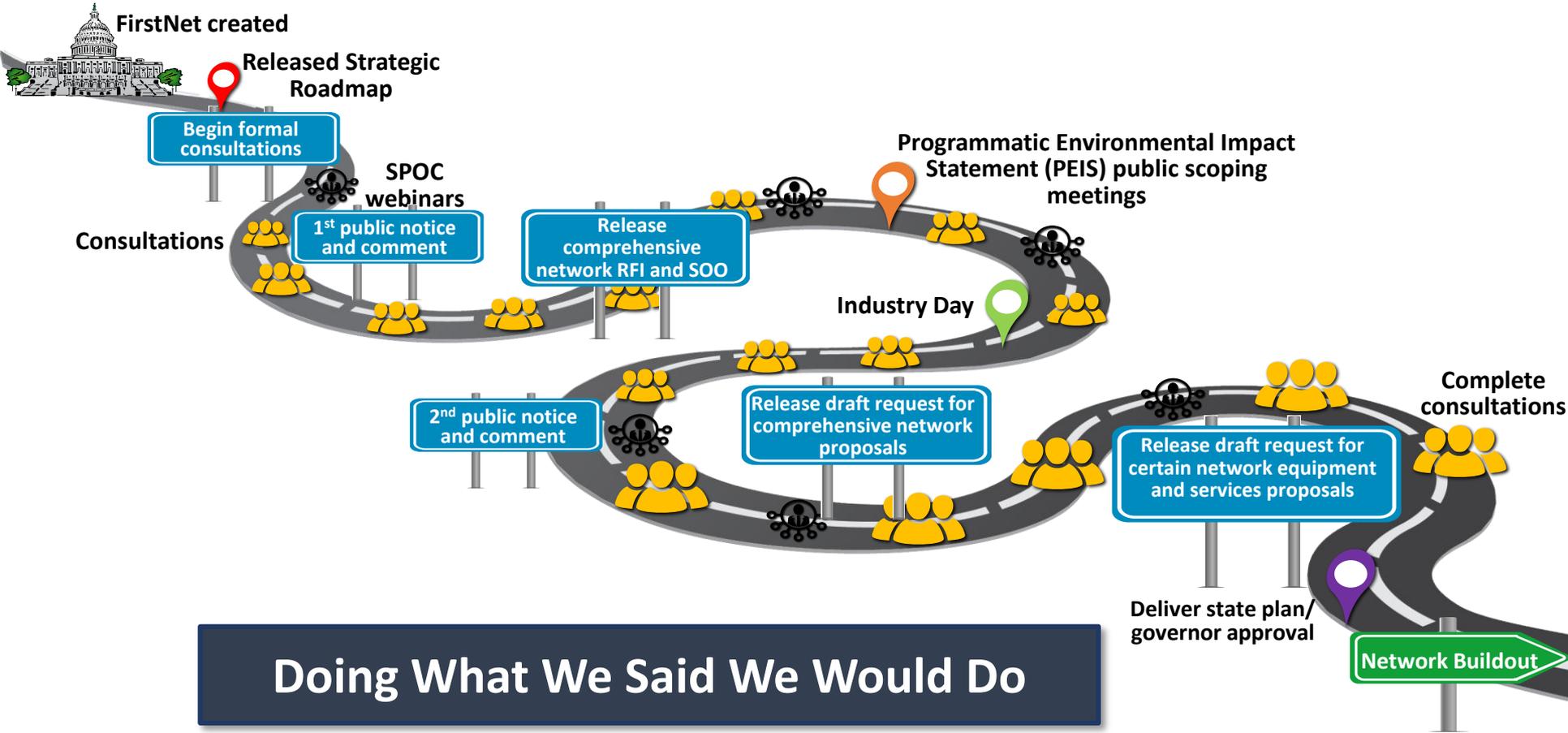
Mission Critical Voice/Data

# FirstNet Shared Goals with NG9-1-1



- Technology Modernization: Both represent efforts to update voice centric legacy systems to IP based architecture to allow telecommunicators and first responders to leverage information in multiple media formats
- National Focus: Both aim for broadband connectivity in urban, rural, remote communities
- Improved Emergency Response: Both seek to enhance communications and coordination of responses to requests for public safety assistance
- Planning & Governance: Both require planning and governance to ensure successful deployments

# Current Roadmap Snapshot



# What is the purpose of the RFI and SOO?



- Provide interested parties with greater visibility into FirstNet's proposed direction for network deployment
- Helps FirstNet gather information to:
  - Better understand industry's capabilities
  - Shape the comprehensive network solution acquisition strategy
  - Establish the direction for industry day
  - Inform the Statement of Objectives (SOO) and Request for Proposals (RFP)
  - Surface questions and answers that FirstNet has not asked or considered
- The Statement of Objectives (SOO):
  - Outlines a performance-based acquisition approach
  - Presents a set of objectives in order to encourage innovative solutions to meet public safety needs
  - Counts on marketplace collaboration to ensure best outcomes for states, territories and tribal lands

# Examples of RFI Topics



- Compelling and Competitive Pricing Packages
- Substantial Rural Milestones
- Speed to Market
- Priority and Preemption
- Integration of federal, state, tribal, and local Infrastructure
- Provisioning
- Service Level Agreements
- Customer Care, Billing, and Marketing

# Why Do Notice and Comment?



- Notice is an opportunity to receive input on unclear provisions of the law
- Comments will provide critical inputs into the draft RFP and will shape the economic and technical aspects of the procurement
- Allows a broad audience, including public safety entities, to provide feedback in the *Federal Register* notice process



# 1<sup>st</sup> Public Notice Topics



- Network elements, including “core” and “Radio Access Network”
- Network users, including “public safety entity,” “secondary” and other network users
- Permitted services
- RFP standards for “open, transparent, competitive” process
- Definition of “rural” and substantial rural coverage milestones
- Existing infrastructure sharing
- Fees, including covered leasing fees

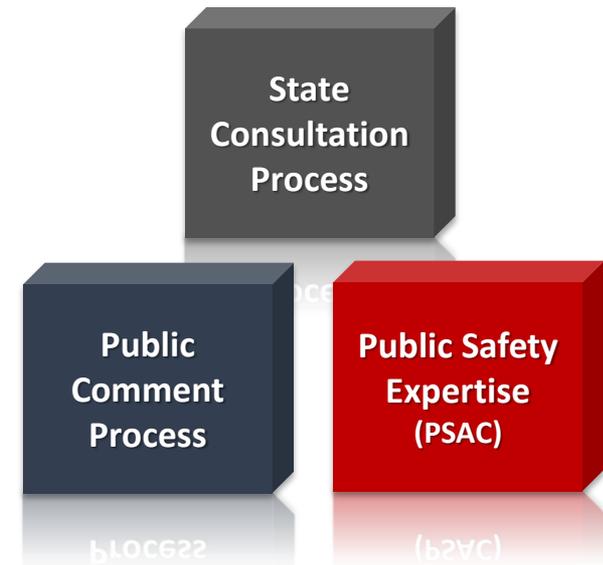


# RFI, SOO and Public Notice Recap



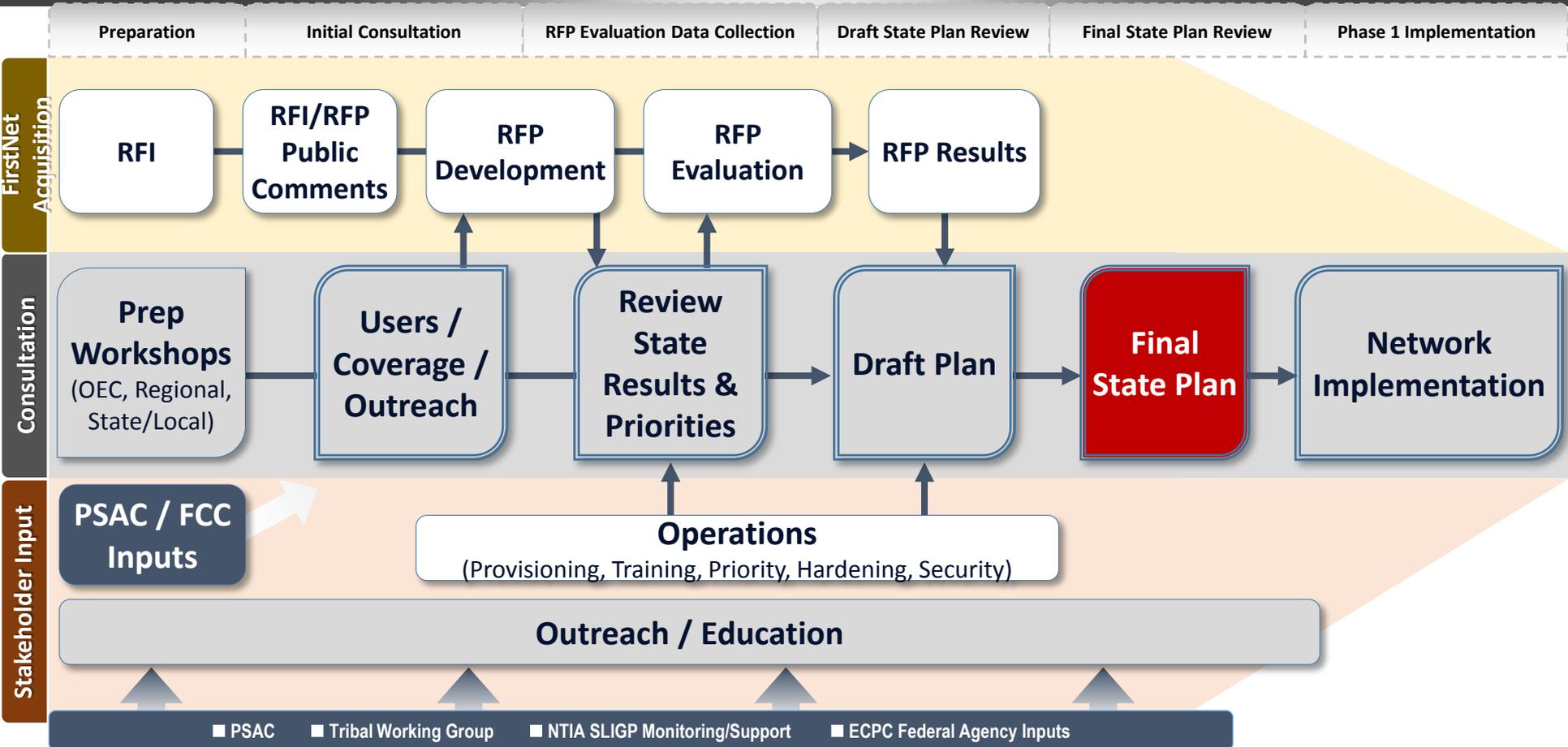
- Request for Information (RFI) with a draft Statement of Objectives (SOO)
  - 122 confidential responses received by October 27 deadline
- Public Notice and Comment
  - 64 public responses received by October 27 deadline
- Responses came from state and local governments; major public safety organizations and trade associations; and some private sector parties, including communications vendors and carriers serving both rural and non-rural areas.
- Received extensive feedback on how best to structure our acquisition strategy for deploying an interoperable nationwide public safety broadband network.

- Construction of a Core and RAN build out
- Placement of towers
- Coverage areas of the network
- Adequacy of hardening, security, reliability, and resiliency requirements
- Assignment of priority to local users
- Assignment of priority and selection of secondary users
- Training needs of local users



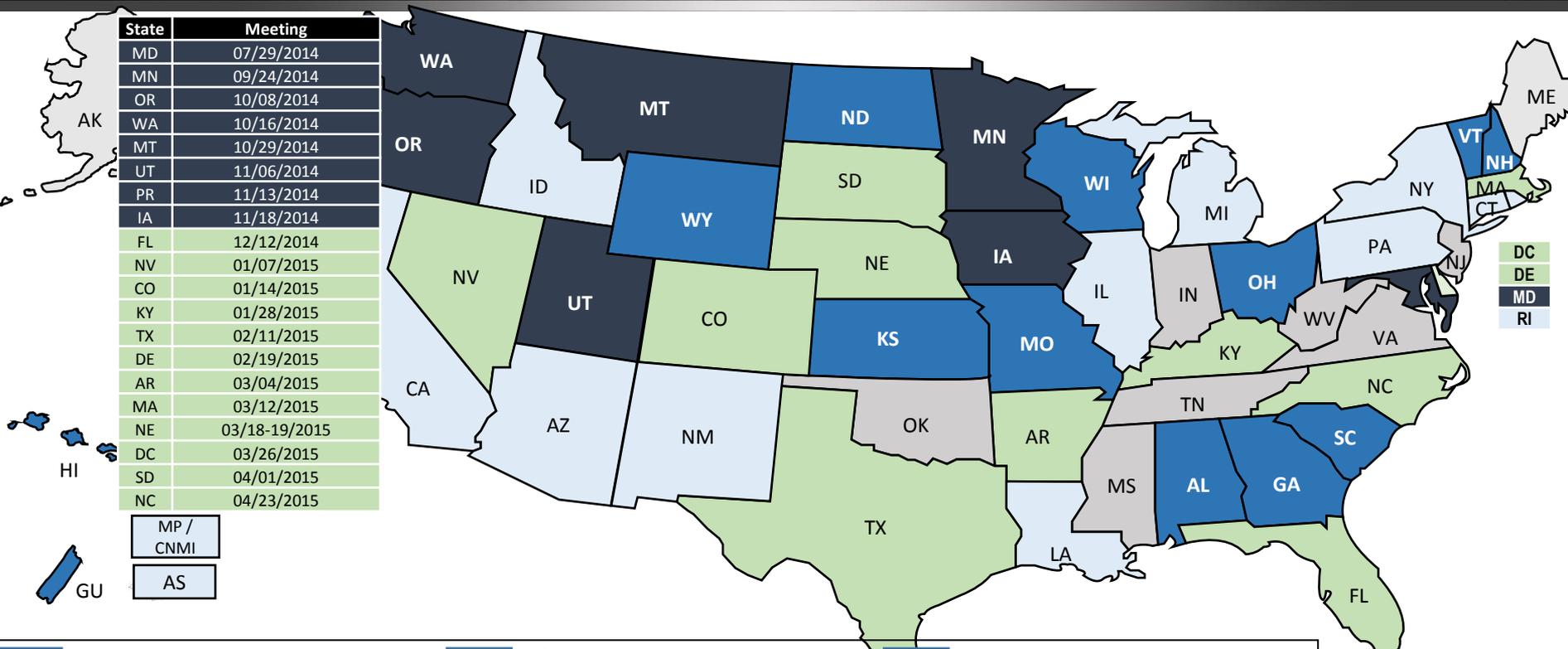
*Note: Tribal consultation requirements under the National Historic Preservation Act will be addressed separately.*

# Updated Consultation Approach



# Tracker – Consultation Activities

## As of December 2, 2014



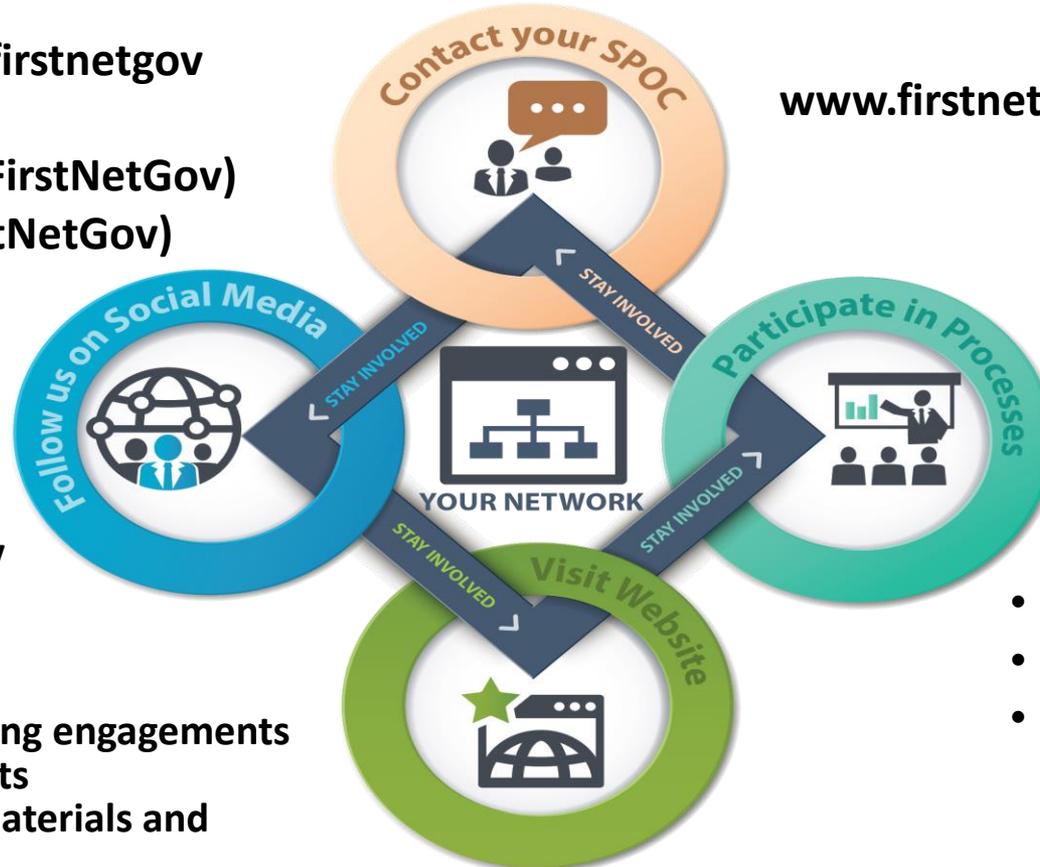
|     |   |    |  |        |   |
|-----|---|----|--|--------|---|
| All | 1) Received Initial Consultation Package from FirstNet  | 34 | 3) Initial Consultation Checklist returned to FirstNet | 12     | 5) Initial Consultation meetings scheduled in 2014 / 2015 |
| 44  | 2) Pre/consultation conference call scheduled or closed | 8  | 4) Initial Consultation meeting held with FirstNet     | LEGEND |   |



# Stay Involved

- Twitter @firstnetgov
- LinkedIn
- YouTube (FirstNetGov)
- Flickr (FirstNetGov)

[www.firstnet.gov/consultation](http://www.firstnet.gov/consultation)



[www.firstnet.gov](http://www.firstnet.gov)

- Fact Sheets
- Blogs
- Presentations
- Upcoming speaking engagements and current events
- Board meeting materials and webcast

- RFI
- Public Comment
- Consultation



@FirstNetGov

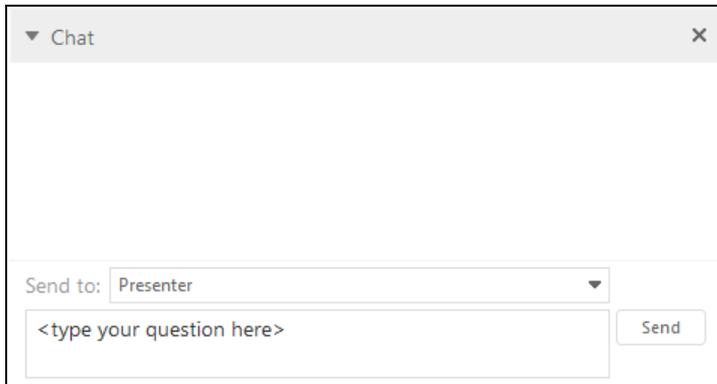
# FirstNet™



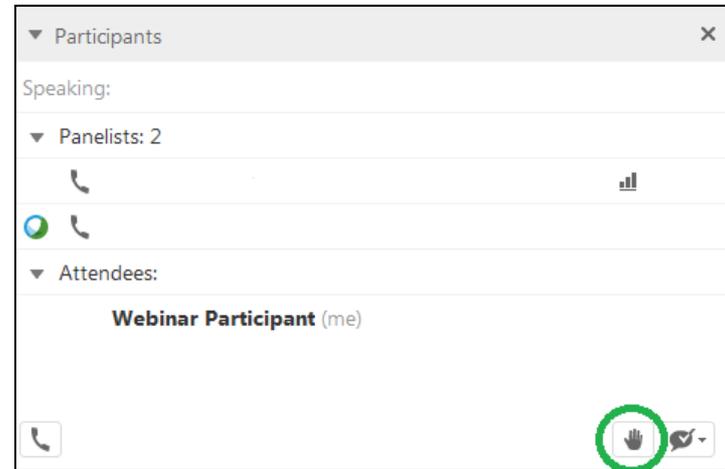
# Thank You

# Q&A Period

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# Texas State-Level ESInet Overview

National 911 Program Webinar Series – December 4, 2014

Kelli Merriweather, Executive Director

Commission on State Emergency Communications (CSEC)

# Texas 911 Landscape

|                       |  |
|-----------------------|--|
| Population:           | 26.5 million                                   |
| Geography:            | 268,820 square miles                           |
| International Border: | 1,254 miles                                    |
| Gulf of Mexico:       | Third Coast, 387 miles long                    |
| Counties:             | 254  |
| 911 Entities:         | 75   |
| PSAPs:                | 587 (Not all PSAPs are within State oversight) |

**911 Entities include:** Regional Planning Commissions (RPCs),  
Emergency Communications Districts (ECDs), and Municipal ECDs.



**Commission on  
State Emergency  
Communications**

### Emergency Communication Districts

- 1 Abilene/Taylor Co. 9-1-1 District
- 2 Austin Co. Emergency Communications District
- 3 Bexar Metro 911 Network District
- 4 Brazos Co. Emergency Communications District
- 5 Calhoun Co. 911 Emergency Communications District
- 6 Cameron Co. Emergency Communications District
- 7 Capital Area Emergency Communications District
- 8 Denco Area 911 District
- 9 El Paso Co. 911 District
- 10 Emergency Communications District of Ector Co.
- 11 Galveston Co. Emergency Communications District
- 12 Greater Harris Co. 911 Emergency Network
- 13 Henderson Co. 911 Communications District
- 14 Howard Co. 911 Communications District
- 15 Kerr Co. Emergency 911 Network
- 16 Lubbock Co. Emergency Communications District
- 17 McLennan Co. Emergency Assistance District
- 18 Medina Co. 911 District
- 19 Midland Emergency Communications District
- 20 Montgomery Co. Emergency Communications District
- 21 Potter-Randall Co. Emergency Communications District
- 22 Smith County 911 Communications District
- 23 Tarrant Co. 911 District
- 24 Texas Eastern 911 Network
- 25 Wichita/Wilbarger 911 Communications District

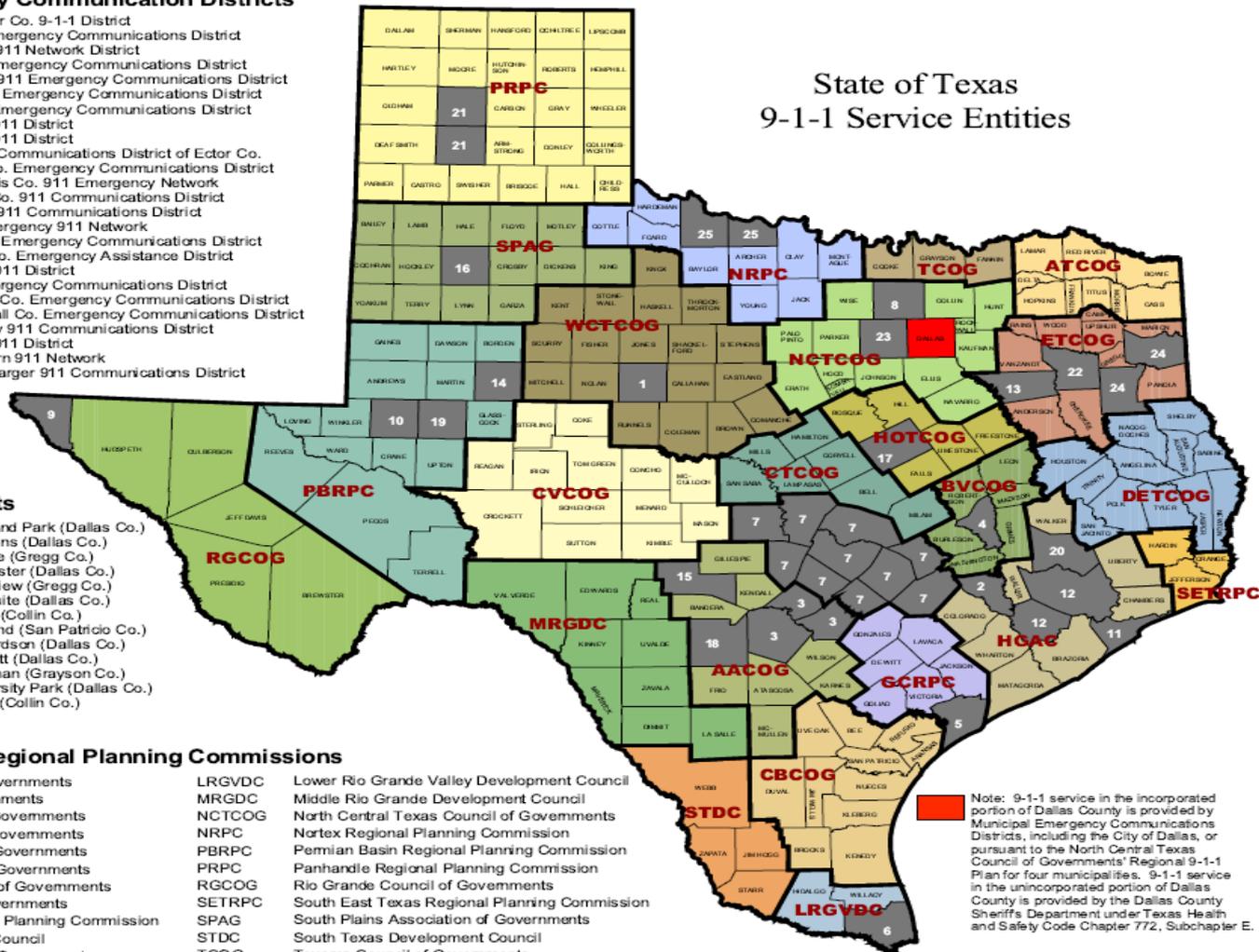
### Municipal Emergency Communication Districts

- |                             |                              |
|-----------------------------|------------------------------|
| Addison (Dallas Co.)        | Highland Park (Dallas Co.)   |
| Aransas Pass (Aransas Co.)  | Hutchins (Dallas Co.)        |
| Cedar Hill (Dallas Co.)     | Kilgore (Gregg Co.)          |
| Coppell (Dallas Co.)        | Lancaster (Dallas Co.)       |
| Corpus Christi (Nueces Co.) | Longview (Gregg Co.)         |
| Dallas (Dallas Co.)         | Mesquite (Dallas Co.)        |
| De Soto (Dallas Co.)        | Piano (Collin Co.)           |
| Denison (Grayson Co.)       | Portland (San Patricio Co.)  |
| Duncanville (Dallas Co.)    | Richardson (Dallas Co.)      |
| Ennis (Ellis Co.)           | Rowlett (Dallas Co.)         |
| Farmers Branch (Dallas Co.) | Sherman (Grayson Co.)        |
| Garland (Dallas Co.)        | University Park (Dallas Co.) |
| Glenn Heights (Dallas Co.)  | Wylie (Collin Co.)           |

### Regional Planning Commissions

- |        |  |         |   |
|--------|--|---------|---|
| AACOG  | Alamo Area Council of Governments            | LRGVDC  | Lower Rio Grande Valley Development Council   |
| ATCOG  | Ark-Tex Council of Governments               | MRGDC   | Middle Rio Grande Development Council         |
| BVCOG  | Brazos Valley Council of Governments         | NCTRCOG | North Central Texas Council of Governments    |
| CBCOG  | Coastal Bend Council of Governments          | NRPC    | Nortex Regional Planning Commission           |
| CTCOG  | Central Texas Council of Governments         | PBRPC   | Pemian Basin Regional Planning Commission     |
| CVCOG  | Concho Valley Council of Governments         | PRPC    | Panhandle Regional Planning Commission        |
| DETCOG | Deep East Texas Council of Governments       | RGCOG   | Rio Grande Council of Governments             |
| ETCOG  | East Texas Council of Governments            | SETRPC  | South East Texas Regional Planning Commission |
| GCRPC  | Golden Crescent Regional Planning Commission | SPAG    | South Plains Association of Governments       |
| HGAC   | Houston-Galveston Area Council               | STDC    | South Texas Development Council               |
| HOTCOG | Heart of Texas Council of Governments        | TCOG    | Texoma Council of Governments                 |
|        |  | WCTCOG  | West Central Texas Council of Governments     |

## State of Texas 9-1-1 Service Entities



Note: 9-1-1 service in the incorporated portion of Dallas County is provided by Municipal Emergency Communications Districts, including the City of Dallas, or pursuant to the North Central Texas Council of Governments' Regional 9-1-1 Plan for four municipalities. 9-1-1 service in the unincorporated portion of Dallas County is provided by the Dallas County Sheriff's Department under Texas Health and Safety Code Chapter 772, Subchapter E.

# Texas NG911 Master Plan

Communicates the vision of Texas NG911 System to stakeholders so they may be actively engaged in its development and deployment.

- Input sought from all stakeholder groups
- Originally published in 2010
- Updated in 2014
- Formally adopted by Commission
- To be updated biannually

# Texas NG911 Master Plan

- System Overview
- Transition Overview
- Method of Finance
- Governance, Legal and Regulatory
- System Management and Operations
- Resource Sharing
- Public Education
- Supporting Radio Communications Interoperability
- Texas NG911 System and ESInet Vision Diagram

# Emergency Communications Advisory Committee (ECAC)

## Purpose:

- Advise the Commission
- Make policy recommendations
- 911 entity collaboration
- Ensure the needs of 911 entities are met
- Required in Statute & Administrative Rule
- Establish subcommittees as needed
- Develop relationships with other agencies for mutually beneficial purposes

# Experiences / Lessons Learned

- Planning began in 2008
  - Reports available on CSEC's website ([www.csec.texas.gov](http://www.csec.texas.gov))
- Pilot Projects
  - GIS Data for NG911 (i3) – Texas A&M University
  - ENHANCE 9-1-1 Grant Project
- Lessons Learned
  - Start EARLY on data preparation
  - NG911 & ESInets are **IT projects**
  - Use competitively-bid, deliverables-based contracts

# State-Level ESInet Project Overview

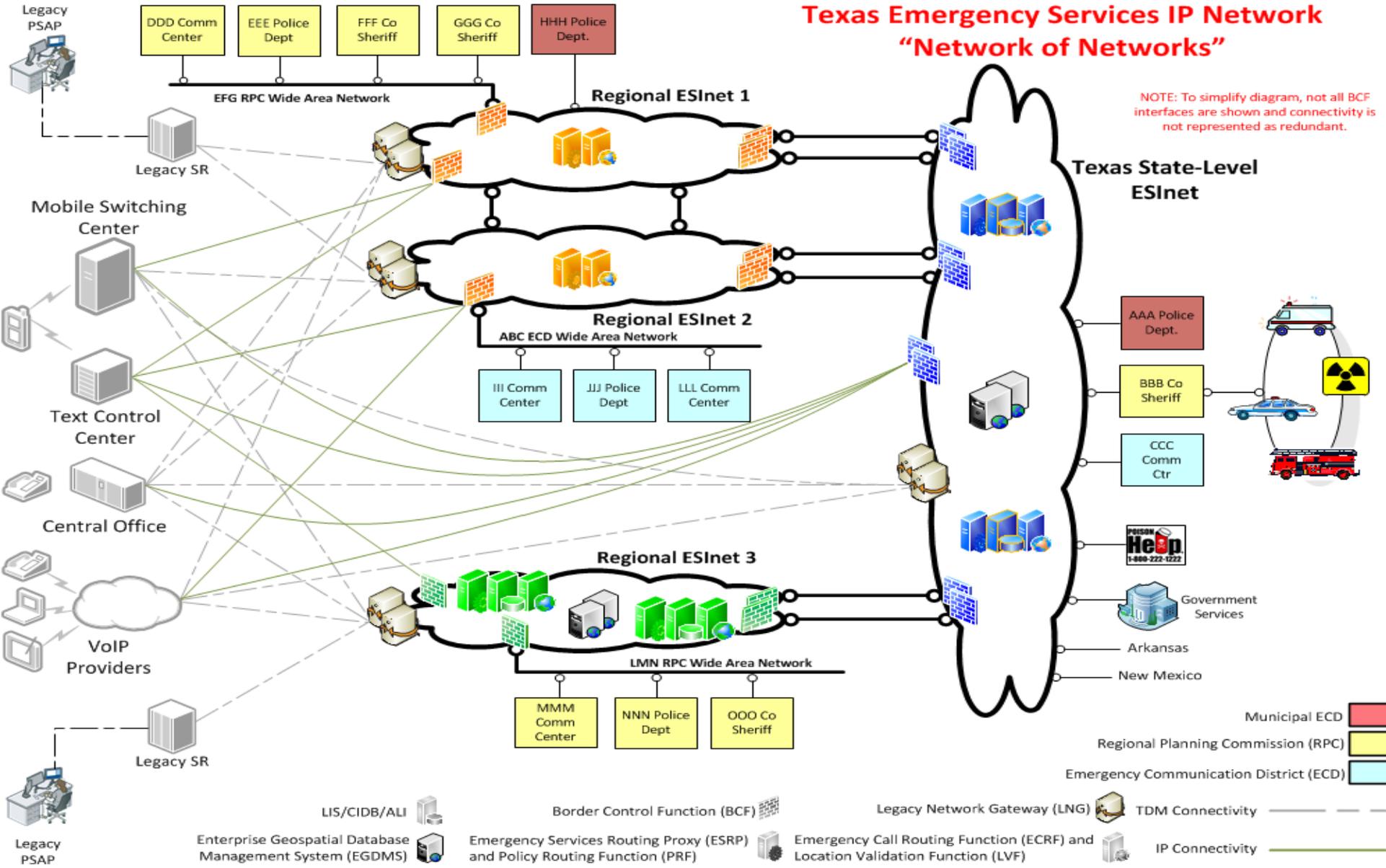
- Multi-phase effort to address generational technology issues
- Enabling Texas to prepare for the eventual decommissioning of legacy selective routers and 9-1-1 infrastructure
- Establishing a standards-based, state-level Emergency Services IP Network (ESInet) as the operating platform for 9-1-1 now and the future
- Migrating emergency call traffic to the ESInet in order to realize potential
- Aligned with our legislative funding cycle

# Phase I Objectives

- Leverage and enhance our ALI delivery MPLS network to serve as the State-level ESInet
- Enable Text-to-911 as a “First Office Application”
- Implement/upgrade network and equipment to support 80 Phase I PSAPs to receive 911 calls
- Identify/develop the technical requirements and IT policies and procedures to enable NG911
- Working with the ECAC to adopt standards and polices for GIS, security, NG9-1-1, and PSAP interoperability

# Texas Emergency Services IP Network "Network of Networks"

NOTE: To simplify diagram, not all BCF interfaces are shown and connectivity is not represented as redundant.



# Progress To Date

## **State-Level ESInet**

- Developed a Project Charter / Implementation Plan
- Complete Phase I Statements of Work (Systems Integrator and SME Service Providers)
- ECAC Subcommittees Established
- Functional/Technical Requirements Gathering Underway

## **Supporting / Related Projects**

- Enterprise Geospatial Database Management System (EGDMS)
- Automatic Location Information (ALI)/Location Validation Function (LVF)
- Text-to-911

# State-Level ESInet Benefits

- Speeds access to Text-to-911 PSAP capabilities
- Enables enhanced redundancy / backup PSAP flexibility
- Improves interoperability / data sharing among PSAPs, especially for PSAP-to-PSAP call transfer
- Allows for efficiencies through centralized solutions and retiring of expensive, legacy technologies

# Contact Information

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Executive Director

Commission on State Emergency Communications

(512) 305-6938

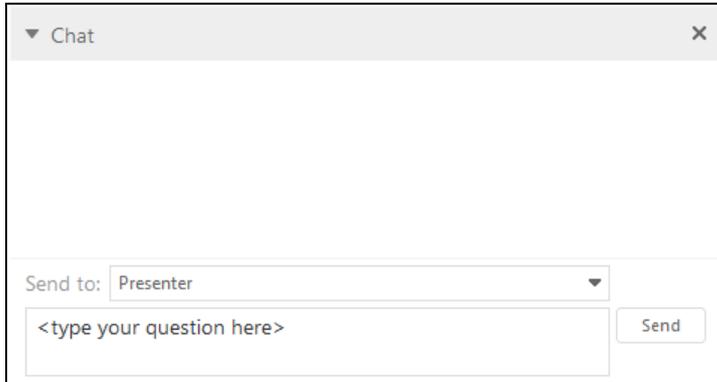
[kelli.merriweather@csec.texas.gov](mailto:kelli.merriweather@csec.texas.gov)

Learn More:

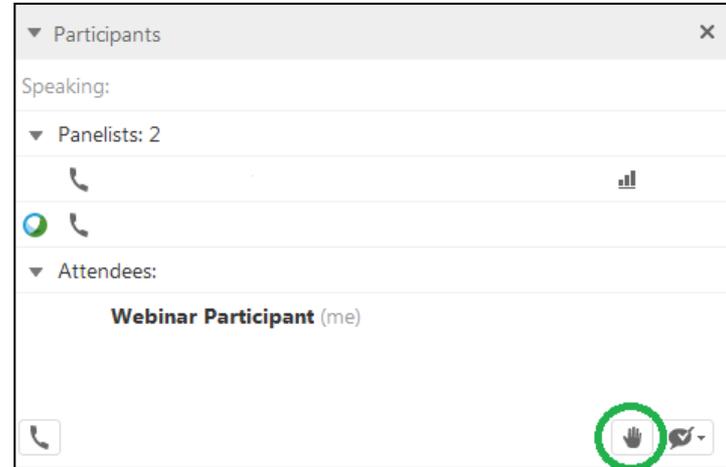
[www.csec.texas.gov](http://www.csec.texas.gov)

# Q&A Period

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# Future Webinars

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Next Scheduled Webinar: Thursday, February 5, 2015 at 12 noon ET

Presenters will be announced shortly and registration will be available on January 5, 2015

Visit [911.gov](http://911.gov) to access archived webinars

# National 911 Program

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Feedback or questions can be sent to: [National911Team@mcp911.com](mailto:National911Team@mcp911.com)